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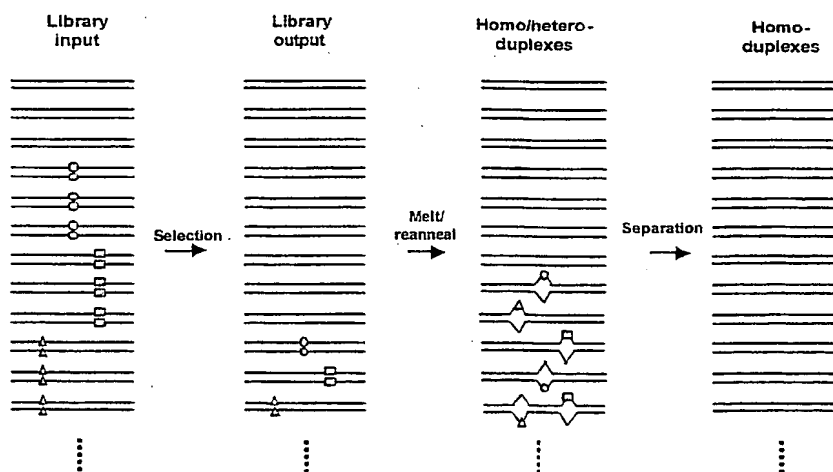
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(54) Title: METHOD FOR ENRICHMENT INVOLVING ELIMINATION BY MISMATCH HYBRIDISATION

Homo- and Hetero-duplex formation and separation

Library input — Library output — Homo/hetero-duplexes — Homo-duplexes

Selection — Melt/reanneal — Separation

(57) Abstract: The present invention relates to a method for selecting a molecule from a library of such molecules associated with identifier oligonucleotides, said molecule having affinity towards a target. The method involves contacting library with a target to allow for an interaction between the molecules and the target and partitioning a fraction enriched in identifier oligonucleotides of molecules interacting with the target. After an optional nucleic acid amplification of the partitioned fraction, the fraction is subjected to conditions at which hetero-duplexes and homo-duplexes are formed. The homo-duplexes are subsequently recovered and decoded to identify the identity of the molecule interacting with the target.

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